

This listing of claims will replace all prior versions and listings of claims in this application:

a.) Listing of Claims

1. (Cancelled)

2. (Cancelled)

3. (Cancelled)

4. (Cancelled)

5. (Currently amended) A system as claimed in claim 10, wherein the mobile terminal does not register in the cellular carrier network as it moves from the wireless local area network into the cellular carrier network and the mobile terminal inherits call parameters of the controller and switches its radio to the cellular carrier network using the call parameters.

6. (Currently amended) A system as claimed in claim 10, wherein the controller implements ~~A TDMA-to-VoIP and VoIP-to-TDM~~ conversion.

7. (Currently amended) A flexible method of ~~routing~~ handling calls ~~originating within between a wireless local area network of an enterprise and a cellular carrier network, the method~~ comprising:

a controller registering and emulating a mobile terminal, which is capable of communicating over the wireless local area network and the cellular carrier network, on the cellular carrier network when the mobile terminal is communicating via the wireless local area network within the enterprise;
calls from the cellular carrier network being received via a fixed radio terminal of the controller,
the controller routing the calls received from the cellular carrier network to the mobile terminal over the wireless local area network;

the controller maintaining the calls over the cellular carrier network through the fixed radio terminal and over the wireless local area network to the mobile terminal

~~forwarding the calls to a cellular wireless network via a cellular proxy with the calls occurring over a cellular carrier network via a fixed radio terminal that emulates a mobile terminal on the cellular carrier network and over the wireless local area network; and~~

~~the cellular proxy forwarding the calls from the cellular wireless network to the Internet or a private IP network via an enterprise router using a virtual private network (VPN).~~

8. (Cancelled)

9. (Cancelled)

10. (Previously presented) A system for managing calls between a wireless local area network and a cellular carrier network, the system comprising:

a dual mode mobile terminal capable of communicating over the wireless local area network and the cellular carrier network; and

a controller that registers and emulates the mobile terminal on the cellular carrier network when the mobile terminal is communicating via the wireless local area network with the calls from the cellular carrier network being received via a fixed radio terminal of the controller, the controller routing calls received from the cellular carrier network to the terminal over the wireless local area network with each of the calls being maintained over the cellular carrier network through the fixed radio terminal and over the wireless local area network.

11. (Cancelled)

12. (Previously presented) A system as claimed in claim 10, wherein the mobile terminal is assigned two telephone numbers, one for the cellular carrier network and one for a private branch exchange.

13. (Currently amended) A system as claimed in claim 12, wherein calls placed to the telephone number of the cellular carrier network are received by the controller and routed to the mobile terminal via the wireless local area network when the mobile terminal is on the wireless local area network and calls placed to the telephone number of the private branch exchange are received by the controller and routed to the terminal via the wireless local area network when the mobile terminal is on the local area network.

14. (Previously presented) A system as claimed in claim 10, wherein the mobile terminal attempts to register with the wireless local area network and only registers with the cellular carrier network if registration with the wireless local area network is unsuccessful.

15. (Previously presented) A system as claimed in claim 10, wherein calls are monitored for call quality over the wireless local area network.

16. (Previously presented) A system as claimed in claim 15, wherein when the call quality degrades to a threshold, the mobile terminal switches to communicating over the cellular carrier network.

17. (Previously presented) A system as claimed in claim 16, wherein if the call is on a phone number of a private branch, when mobile terminal is switching to communicating over the cellular carrier network, then the controller calls a telephone number of the mobile terminal on the cellular carrier network and routes the call to the mobile terminal through the cellular carrier network.

18. (Currently amended) A system as claimed in claim 17, wherein if the call is on a phone number of the cellular carrier network, when mobile terminal is switching to communicating over the cellular carrier network, then the controller

functions to handoff ~~handoffs~~ the call to the mobile terminal, which then activates communications for the cellular carrier network.

19. (Currently amended) A system as claimed in claim 16, wherein if the call is on a phone number of the cellular carrier network, when mobile terminal is switching to communicating over the cellular carrier network, then the controller functions to handoff ~~handoffs~~ the call to the mobile terminal, which then activates communications for the cellular carrier network.

20. (Previously presented) A system as claimed in claim 10, wherein calls are monitored for call quality over the cellular carrier network.

21. (Previously presented) A system as claimed in claim 20, wherein when the call quality degrades to a threshold, the mobile terminal switches to communicating over the wireless local area network if available.

22. (Previously presented) A system as claimed in claim 21, wherein when the call quality degrades to the threshold, the controller monitors communications for the mobile terminal on the cellular carrier network maintaining the call and sends communications to the mobile terminal via the local area network and communications from the mobile terminal to the cellular carrier network via a fixed antenna.

23. (Previously presented) A system for managing calls between a wireless local area network and a cellular carrier network, the system comprising:

- a dual mode mobile terminal capable of communicating over the wireless local area network and the cellular carrier network; and
- a controller that registers and emulates the mobile terminal on the cellular carrier network when the mobile terminal is communicating via the wireless local area network with the calls from the cellular carrier network being received via a fixed radio terminal of the controller, the controller routing calls received from the cellular carrier network to the terminal

over the wireless local area network with each of the calls being maintained over the cellular carrier network through the fixed radio terminal and over the wireless local area network;

wherein the mobile terminal is assigned two telephone numbers, one for the cellular carrier network and one for a private branch exchange and calls placed to the telephone number of the cellular carrier network are received by the fixed radio terminal of the controller and routed to the mobile terminal via the wireless local area network when the mobile terminal is on the local area network and calls placed to the telephone number of the private branch exchange are received by the controller and routed to the terminal via the wireless local area network when the mobile terminal is on the local area network;

wherein the mobile terminal attempts to register with the wireless local area network and only registers with the cellular carrier network if registration with the wireless local area network is unsuccessful;

wherein if the call is on a phone number of a private branch, when mobile terminal is communicating over the cellular carrier network, then the controller calls a telephone number of the mobile terminal on the cellular carrier network and routes the call to the mobile terminal through the cellular carrier network; and

wherein if the call is on a phone number of the cellular carrier network, when mobile terminal is communicating over the cellular carrier network, then the controller handoffs the call to the mobile terminal, which then activates communications for the cellular carrier network.

24. (Previously presented) A system as claimed in claim 23, wherein when the call quality degrades to the threshold, the controller monitors communications for the mobile terminal on the cellular carrier network maintaining the call and sends communications to the mobile terminal via the local area network and communications from the mobile terminal to the cellular carrier network via a fixed antenna.

25. (New) A system as claimed in claim 10, wherein the controller implements CDMA-to-VoIP conversion.

26. (New) A method as claimed in claim 7, further comprising the mobile terminal inheriting call parameters of the controller and switching a radio to the cellular carrier network using the call parameters when the mobile terminal moves from the wireless local area network into the cellular carrier network.

27. (New) A method as claimed in claim 7, further comprising assigning the mobile terminal two telephone numbers, one for the cellular carrier network and one for a private branch exchange of the enterprise.

28. (New) A method as claimed in claim 27, further comprising:

for calls placed to the telephone number of the cellular carrier network,
receiving the calls at the fixed radio terminal of the controller and routing the calls to the mobile terminal via the wireless local area network when the mobile terminal is on the wireless local area network; and
for calls placed to the telephone number of the private branch exchange,
receiving the calls by the controller and routing the calls to the terminal via the wireless local area network when the mobile terminal is on the local area network.

29. (New) A method as claimed in claim 7, further comprising the mobile terminal attempting to register with the wireless local area network and only registering with the cellular carrier network if registration with the wireless local area network is unsuccessful.

30. (New) A method as claimed in claim 7, further comprising monitoring calls are for call quality over the wireless local area network.

31. (New) A method as claimed in claim 30, further comprising, when the call quality degrades to a threshold, the mobile terminal switches to communicating over the cellular carrier network.

32. (New) A method as claimed in claim 30, further comprising if the call is on a phone number of a private branch exchange of the enterprise when mobile terminal is switching to communicating over the cellular carrier network, then the controller calls a telephone number of the mobile terminal on the cellular carrier network and routes the call to the mobile terminal through the cellular carrier network.

33. (New) A method as claimed in claim 30, further comprising, if the call is on a phone number of the cellular carrier network when mobile terminal is switching to communicating over the cellular carrier network, then the controller handoffs the call to the mobile terminal, which then activates communications for the cellular carrier network.